INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 2005		Park: Shenandoah NP	
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Permit#: SHEN-2004-SCI-0014			
Park-assigned Study Id. #: SHEN-00259			
Project Title: DOI-USGS AMPHIBIAN RESEARCH AND MONITORING INITIATIVE (ARMI) IN THE NORTHEAST			
Permit Start Date: Jul 01, 2004		Permit Expiration Date Jul 01, 2005	
Study Start Date: Jul 01, 2004		Study End Date Jul 01, 2007	
Study Status: Continuing			
Activity Type: Monitoring			
Subject/Discipline: Herpetology (Amphibians / Reptiles)			
Objectives: SNP is one of the Index Sites for the DOI-USGS Amphibian and Research Monitoring Initiative (ARMI) in the Northeast Region. The goals of this long-term amphibian monitoring project at SNP are to:			
1. Monitor pond, stream and terrestrial amphibians			
2. Estimate bias in and validate survey methodologies			
3. Assess spatial and temporal variation in amphibian distribution counts in relation to environmental variables			
4. Assess health and disease status of amphibians at SNP			

- 5. Provide amphibian and reptile distribution map data to SNP
- 6. Conduct population monitoring and conservation genetics work on the federally endangered Shenandoah salamander (Plethodon shenandoah)

Findings and Status:

In 2005, research in Shenandoah focused on finding, estimating and monitoring vernal pool habitat and wood frogs and spotted salamanders using egg mass counts and a proportion of area (vernal pools) occupied approach.

Twenty-nine randomly selected points were visited and searched for vernal pools using an adaptive cluster sampling method. One point contained 4 vernal pools and 4 other pools were found opportunistically while traveling to these points. Wood frogs were detected at 3 of these new pools, but no spotted salamanders were recorded.

For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? Yes

Yes			
Funding provided this reporting year by NPS:	Funding provided this reporting year by other sources:		
3000	0		
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college			
Full name of college or university:	Annual funding provided by NPS to university or college this reporting year:		
n/a	0		